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INSTRUMENT CORP.

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RESEARCH
and ANALYTICAL
INSTRUMENTATION

**VUV • VISIBLE • IR
SPECTROSCOPY**



McPHERSON INSTRUMENT CORPORATION

If your RESEARCH carries you into any one of the following areas of investigation* . . .

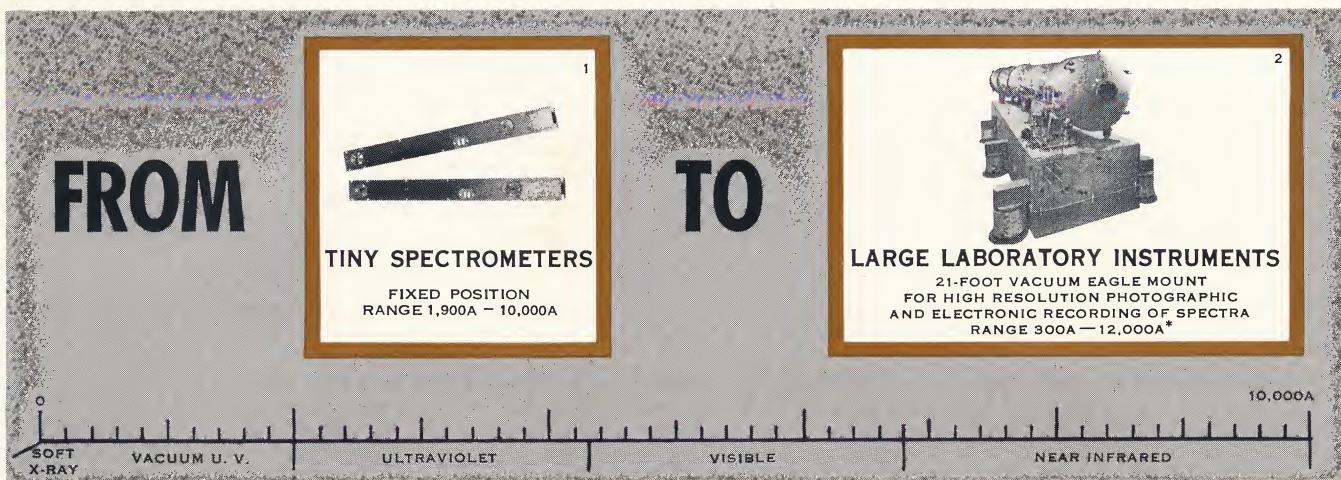
- those problems peculiar to high resolution spectroscopy such as wavelength standards
- the determination of the ionization potentials of atoms and molecules and the theoretical interpretation
- the determination of the dissociation energies of diatomic molecules and the bond strengths of polyatomic molecules
- the absorption coefficients of molecules, especially those of importance to astrophysics
- the development of light sources to produce strong emission continua and strong line spectra
- those problems related to gratings such as discovering new high reflectance coatings
- the classification of spectra, atomic, diatomic, and polyatomic, along with the theoretical interpretation of the electronic states and the vibrational and rotational assignments . . .

THIS IS McPHERSON'S WORLD

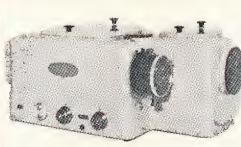
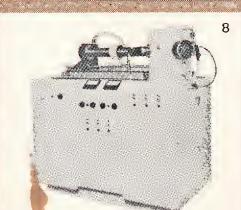
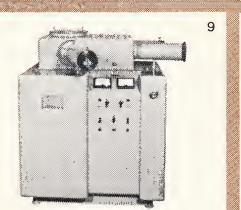
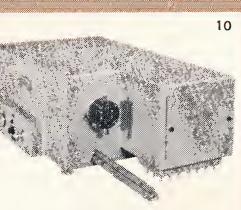
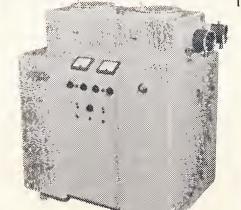
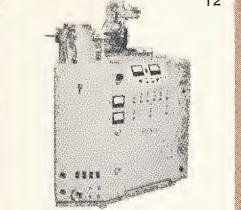
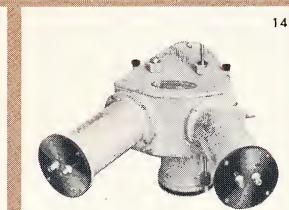
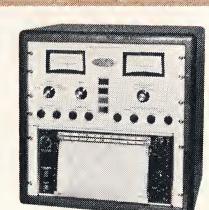
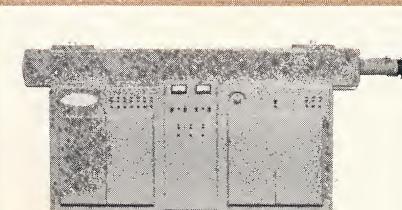
Wavelength	Electron Volts
10 Å	1,240.0 eV
100 Å	124.0 eV
1,000 Å	12.4 eV
2,000 Å	6.2 eV
6,000 Å	2.1 eV

**THEN . . . some one of the
FIFTY-plus-instruments
built by McPHERSON
is tailor made for you.**

*From "Some unsolved Problems in the Vacuum Ultraviolet"
P. G. Wilkinson.



McPherson offers a complete line of instruments to study the spectral range from soft X-ray to near infrared

 <p>3 0.5 AND 1 METER COMBINATION SCANNING MONOCHROMATOR, SPECTROGRAPH, DIRECT READER RANGE 1050A - 80,000A*</p>	 <p>4 1 METER SCANNING MONO- CHROMATOR CZERNY-TURNER RANGE 2,000A - 10,000A*</p>	 <p>5 2 METER COMBINATION SPECTRO- GRAPH AND SCANNING MONO- CHROMATOR, EAGLE, RANGE 300A - 6,800A*</p>	 <p>6 .5 METER SCANNING MONOCHRO- MATOR SEYA-NAMIOKA RANGE 300A - 6,000A*</p>	
<p>These instruments represent a partial list of the standard spectrometers manufactured by McPherson.</p> <p><i>*The range and resolution of these instruments may be increased by interchanging gratings.</i></p>		 <p>7 WAVELENGTH COMPARATOR ACCURATE TO 1 MICRON IN 10 INCHES</p>		
 <p>8 2 METER GRAZING INCI- DENCE VACUUM U.V. SCANNING MONOCHRO- MATOR, ROWLAND CIRCLE RANGE 10A - 2,000A*</p>	 <p>9 1 METER SCANNING MONOCHROMATOR SEYA AND NORMAL INCIDENCE RANGE 300A - 6,000A*</p>	 <p>10 0.5 AND 1 METER COMBINATION SCANNING MONOCHROMATOR, SPECTROGRAPH, DIRECT READER RANGE 1850A - 40,000A*</p>	 <p>11 1 METER NORMAL INCIDENCE SCANNING MONOCHROMATOR MCPEHSON TYPE RANGE 300A - 6,000A*</p>	 <p>12 2 METER GRAZING INCI- DENCE VACUUM U.V. SPECTROGRAPH, VARI- ABLE POSITION RANGE 10A - 2,000A*</p>
 <p>13 0.3 METER PLANE GRATING SCANNING MONOCHROMATOR WITH CORRECTED OPTICS AND SNAP-IN TYPE GRATING RANGE 1050A - 160,000A*</p>	 <p>14 DOUBLE BEAM SAMPLE CHAMBER WITH DETECTORS 90% EFFICIENCY AT LYMAN ALPHA</p>	 <p>15 DUAL-PEN RATIO RECORDER FOR SIMULTANEOUS CHARTING OF TWO FUNCTIONS.</p>	 <p>16 3 METER HIGH RESOLUTION SCANNING MONOCHROMATOR CZERNY-TURNER RANGE 1,000A - 6,000A*</p>	



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